THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held Jan. 5, 1933.

The meeting was called to order at 8:27 PM by President Moore.

The minutes stood approved as read.

Mr. Crapo announced that on Jan 14th, WBZ, Springfield, Mass., 990 KC, would broadcast an amateur program at 10:15 PM C.S.T., the speaker being A. A. Hebert from A.R.R.L. headquarters.

Mr. Moore announced that the Allen-Bradley Company had produced a film on the production of fixed resistors. It was thought that the film could pernaps be used by the Club at a future meeting. Mr. Zander then announced that some films were probably available from the telephone company. This led to a discussion on what could be done to increase the Club's membership.

Mr. Catel gave an inspiring talk on what could be done toward having larger attendance at the meetings, suggesting such things as circulars, speakers, etc. Most of the membership added its comments, resulting in the proposal of several plans: among them being the appointment of an official greeter in the person of Mr. Meyer, the broadcasting on the air of announcements of Club meetings, and the preparation of a mailing list consisting of all the licensed amateurs in Milwaukee County.

Handbook as text book

Finally, the secretary passed out postals to those present who were then requested to write short notes to W9CRT.

Due to the lateness of the hour, the meeting was adjourned at 10:00 PM.

Respectfully submitted,

Louis A. Wollaeger

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held Jan. 12, 1933.

The meeting was called to order at 8:25 PM by Mr. Moore.

The minutes stood approved as amended by Mr. Catel.

Mr. Edmund Terborg was admitted to associate membership, while Mr. Robert Holtz was admitted to junior membership.

Dr. Rosenbaum, after having waited for a very long time, was finally presented with his membership certificate.

President Moore read a letter composed by Mr. Catel, which is to be circularized among the amateurs of Milwaukee County. He also read the Amateur Code from the frontispiece of the Amateur Handbook.

Mr. Meyer, of the papers and publications committee, read a story from a 1928 QST relative to the experiences of SJ5BX in a volcano crater down in Peru. Much interest was shown in the article.

Next on the program was a "spell-down", in which the participants were required to define radio terms given them by President Moore. Messrs. Seibel and Catel acted as judges and also hunted up the werms. Because of lack of time, the "spell-down" had to be concluded with three participants remaining.

Mr. Wareing announced that he had copied an official A.R.R.L. broadcast announcing the extension of all present amateur station licenses for another two years.

Adjournment took place at 10:00 PM.

Respectfully submitted,

Louis A. Wollaeger

Secretary

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held Jan. 19, 1933.

The meeting was called to order at 8:20 PM. by President Moore.

The minutes stood approved as read.

Mr. Moore announced that Mr. Catel would show moving pictures of Navy activities on February 2nd and asked that those present at the meeting would bring their friends.

Mr. Meyer of the papers and publications committee read an article from Modern Radio on radio as used in the forestry service. He also read articles on amateur transmitter practice and the elimination of heterodyne interference between WFLA and WTMJ. From Electronics he read articles on photo-cell applications and on the recent large increase in the number of amateurs, together with an editorial criticizing the tube manufacturers for their lack of co-operation as shown by the great number of superfluous tubes recently brought out. WSM's 800 foot vertical antenna was also discussed.

A short discussion on the effect of temperature on the crystal frequency followed.

Mr. Zander announced that he had arranged for some pictures to be shown by the Telephone company at Club meetings. Mr. Kurth agreed to include a notice in the forthcoming circular that one of the pictures would be shown at the meeting on January 26th.

The secretary moved that Mr. Kurth the vice-president repair to the front of the room where he belonged. Motion passed. The sergeants-at-arms, Mr. Meyer, after having escorted the errant vice-president to the latter's chair, requested that his act be entered in the minutes as showing that he had done his duty.

After Mr. Meyer had passed the visitors' register, all those present were asked to rise and identify themselves.

Mr. Bruno Plitzko, W9LAD, was admitted to regular membership.

Adjournment took place at 9:40 PM.

Respectfully submitted,

Louis A. Wollaeger

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held Jan. 26, 1933.

The meeting was called to order at 8:15 PM by President Moore, who immediately proceeded to address the large gathering in attendance on the aims and ideals of the Club. He also announced the illustrated lecture to be given by Lieut. [redacted]. Fred Catel at the next meeting, on activities af the Naval Reserve, AND regular navy.

The minutes stood approved as read.

President Moore announced that the question box was QRV for questions. He also read excerpts from QRZ, the bulletin of the Wisconsin SCM.

Messrs. Schmidt and Rosenau were admitted to the Club as junior members, while, Mr. Herbert Siepmann was admitted to regular membership.

Several reels of motion pictures, showing the construction and operation of telephones and telephone systems were then shown.

Mr. Catel suggested that the Club send for Handbooks, resulting in the making up of a list by Chairman Moore.

Following this, Mr. R. B. Newhauser was admitted to the Club as a regular member.

The meeting was adjourned at 9:55 PM.

Respectfully submitted,
Louis A. Wollaeger
Secretary.

Treasurer's Report.

Balance brought forward	$29.43.
Receipts,(dues & init. fees)	6.80.
Disbursements,(QRZ & postage)	$.00.
Balance on hand Feb. 1, 1933	$32.23.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held Feb. 2, 1933.

The meeting was called to order at 8:30 PM by President Moore and immediately turned over to Mr. Catel, the roll call and minutes being dispensed with.

Mr. Catel mentioned that, appropriately enough, the pictures to be shown had been brought up from Great Lakes by airplane and would go back the same way. He described the activities of the Naval Reserve, (Radio Section), at length and detailed the process of enlistment, inviting all those present who had not already done so to avail themselves of the opportunity to obtain some real training.

The picture consisted of several reels depicting the training of naval aviators and their subsequent flying activities. The pictures were very interesting and some of the "shots", particularly those taken aboard the aircraft carriers, were excellent. The depiction of several bad landings afforded the audience much amusement. Since time did not permit it was impossible to show all the reels.

MR. Moore thanked Mr. Catel in behalf of the Club, and urged all those present to attend future meetings.

Adjournment took place at 10:00 PM.

Respectfully submitted,

Louis A. Wollaeger

Secretary

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held Feb. 9, 1933.

The meeting was called to order at 8:25 PM by Chairman Moore.

The minutes of the meeting of January 26th were approved as corrected by Messrs. Catel and Gettelman, while those of the meeting of February 2nd were approved as read.

Mr. Charles F. Meyers was admitted to associate membership in the Club.

Mr. Catel announced that the round trip fare to Sheboygan on the electric line would amount to $1.89, with a reduction for twenty-five or more in a party. This was for the benefit of those planning to attend the QSO party of the Sheboygan club on Feb. 11th.

Mr. Moore gave a short discussion of the difficulties he had experienced in attempting to neutralize the amplifier stage following an electron coupled oscillator.

The secretary then gave a short discussion on antenna systems, taken largely from an article in "Modern Radio", by Robert S. Kruse.

Finally Mr. Moore got out the question box and read the questions, all of them, excepting the facetious one, being answered after a fashion by those present.

There being no further business, the meeting adjourned at 9:35 PM.

Respectfully submitted,

Louis A. Wollaeger

Secretary

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held Feb. 16, 1933.

The meeting was called to order at 8:25 PM. by Chairman Moore.

The minutes stood approved as read.

Mr. H. A. Horn was admitted to the Club as an associate member.

Mr. Meyer of the papers and publications committee discussed an article from "Electronics" on the use of nickel in the manufacture of vacuum tube elements. He also read and discussed some articles on the part radio had played in various sea tragedies, together with some newspaper clippings.

Following this, the secretary discussed several of the first sections in the third chapter of the new amateur handbook dealing mostly with the fundamentals of electricity and of conduction in solids, liquids, and gases.

Due to the arrival of the closing hour, adjournment took place at 10:00 PM.

Respectfully submitted,

Louis A. Wollaeger

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held Feb. 23, 1933.

The meeting was called to order at 8:23 PM by Chairman Moore.

The minutes stood approved as read.

Mr. C. F. Senneff, W9KWV, was admitted to regular membership.

Mr. Moore announced the Sheboygan QSO party to be held on March 4th.

Mr. Meyer of the papers and publications committee discussed articles on swinging chokes and on commercial opposition to amateur message handling.

Mr. Barnes read some tube characteristics of various kinds from some booklets put out by Western Electric and R. C. A.

Mr. Moore announced club rates on QST subscriptions, log books, etc.

Mr. Wareing reviewed the method of transmission of electric currents in conductors in a very complete manner. He also discussed the subject of inductance at length.

The operation of several local "bootleg" stations was revealed by some of the membership.

Adjournment took place at 9:50 PM.

Respectfully submitted,

Louis A. Wollaeger

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held Mar. 2, 1933.

The meeting was called to order at 8:17 PM by Chairman Moore.

The minutes stood approved as read.

Mr. Moore announced the $2.00 rate for QST subscriptions to Club members and also talked about the Sheboygan QSO party.

Mr. Meyer discussed the Wunderlich tube, explaining its action, and also referred to several new tubes, one of them a filamentless type. He also spoke on the subject of co-operating with BCL's who are being QRMed by five meter operation.

Ten meter operation was discussed at some length by the membership, as was also five meter operation.

Mr. Wareing and Mr. Senneff discussed the relative merits of plain tungsten and thoriated tungsten filaments in transmitting tubes.

Following this, Mr. Wareing continued his lecture of the previous meeting, going into the subject of inductance in detail. He also discussed the subject of capacitance at length.

Mr. Moore announced Sam Snead's short radio course to be held on April 9, 10, and 11th.

Mr. Earl Krainik, W9BYE, was admitted to regular membership.

Mr. Rose, one of the old time members of the Club, was present.

After some further five meter discussion, the good old question of compulsory A.R.R.L. membership for members of the Club again arose. After the reading of a pertinent paragraph from the Club's by-laws, and the statement by Dr. Rosenbaum that he had reversed his original stand on the question, together with a short talk by Mr. Catel stating that those who would be real members would not be deterred by such a consideration, the question was dropped for the time being.

There being no further business, adjournment took place at 9:45 PM.

Respectfully submitted,

Louis A. Wallaeger

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held Mar. 9, 1933.

The meeting was called to order at 8:23 PM by Chairman Moore.

The minutes stood approved as read.

Mr. Carl Thoms, W9LFK, was admitted to regular membership while Mr. Robert Stoneman was admitted to the junior grade.

After Mr. Kurth had stated that he was too busy to properly care for his duties as membership committee chairman, Mr. Meyer volunteered and was accepted for the position, thus becoming one of the first Club members to hold the chairmanship of two comittees at the same time.

Mr. Moore read a petition from the Mike & Key Club of Elyria, Ohio, regarding segregation of high and low power stations; the former to be at the upper 10% of each band. A discussion followed; no one being in favor of the proposal.

Mr. Meyer read a card reviewing the International DX QSO Contest and also an interesting letter from a VK, containing a typical exam which Australian amateurs are required to pass in order to obtain a license.

There was some considerable discussion of the coming annual QSO party but with no definite conclusions.

The secretary discussed at length that section of the "Handbook" dealing with transformers and generators, describing the operation of these devices. The discussion was concluded due to lack of further time.

The meeting adjourned at 9:55PM.

Respectfully submitted,

Louis A. Wallaeger

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held Mar. 16, 1933.

The meeting was called to order at 8:26 PM. by President Moore.

The minutes stood approved as read.

Mr. Roger Herbst was admitted to junior membership in the Club.

Mr. Meyer read a very interesting letter from W4PL to W9HRM.

The coming annual QSO party was discussed at length and Chairman Moore appointed committee chairmen as follows:

Entertainment	Seibel and Zander
Prize	Rosenbaum and Meyer
Program	Catel
Publicity	Kurth

Mr. Wareing discussed some papers in the I.R.E. proceedings having to do with 44 and 61 megacycle transmissions from the top of the Empire State building up to distances of 284 miles. It was very interesting to note how the strength of the signals could vary with only slightly different receiving locations. This discussion led to a discussion of local conditions on the 56 megacycle band.

There being no forther business, the meeting was adjourned at 9:42 PM.

Respectfully submitted,

Louis A. Wallaeger

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB INC.

Minutes of the Regular Meeting held March 23, 1933.

The meeting was called to order at 8:20 PM by Chairman Moore.

The minutes stood approved as read.

Mr. Mc W9J , now of Milwaukee, was a visitor.

Mr. Moore read several excerpts from QRZ relative to amateur activities centered around Watertown. He also read a letter from the Thordarson Electric Mfg. Company to W9ARM, which requested A.R.R.L. sanction for the QSO party before any prizes would be donated. A long discussion as to the merits of calling the QSO party a Central Division Convention for the benefit of the prize committee then took place. Finally Mr. Crapo moved that it be called a "Central Division Convention and Tenth Annual QSO Party". The motion was passed.

Mr. Meyer read some excerpts from "Electronics" pertaining mostly to bfoadcast radio.

Mr. Barnes related several anecdotes of how he had handled interference complaints relayed to him by The Journal.

After considerably more discussion on the subject of the coming party, the meeting adjourned at 9:43 PM, since neither of the technical committee members felt inclined to expound the technicalities of amateur radio.

Respectfully submitted,

Louis A. Wollaeger

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held March 30, 1933.

The meeting was called to order at 8:25 PM by Chairman Moore.

The minutes of the previous meeting stood approved as read.

There was considerable discussion of the various phases of the coming QSO party, the main factor being the question of whether or not to call it a convention. After Dr. Rosenbaum, chairman of the prize committee, had declared his opposition to calling the party a convention, Mr. Catel moved that Mr. Crapo's motion of the previous meeting, (to call the party a convention), be withdrawn, and that the party be called simply the "Tenth Annual QSO Party. Motion.

Action on a request by the Eastern Pennsylvania amateurs for more traffic section space in QST was lacking, as it was also on a proposed request for more phone territory. The proposals were contained in a letter from W3MC, RM of Eastern Pa. These matters led to a lengthy discussion on the Calls Heard section, K. B. Warner's salary, Etc.

Finally, Dr. Rosenbaum introduced the following resolution:

Resolved that the M.R.A.C. desires that the editorial staff of QST revise the Communications Dept. to exclude all non-essential material in that dept. of QST, but to use as much space as all the essential data requires; and to give the DX enthusiasts of A.R.R.L. their due space in QST by including at least a reasonable Calls Heard list in QST, not confining same to extraordinary DX alone.

The resolution was practically unanimously passed. A motion to send a copy of the resolution to Director Windom was also passed. At the instance of Mr. Wareing a final phrase which was also approved by the membership was added, as follows:

"and that no space be deducted from the Technical Dept. if the material is available."

Adjournment took place at 9:55 PM.

Respectfully submitted,

Louis A. Wollaeger

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held April 6, 1933.

The meeting was called to order at 8:15 PM by Chairman Moore.

The minutes stood approved as read.

Lieutanant Pratt of the National Guard gave a short talk on the duties and privileges of radio operators in the Army, especially at summer camp. His object was to secure two radio operators for the National Guard radio net. His efforts met with no success.

Chairman Moore read a letter from the Supervisor of Radio stating that no definite date for a Milwaukee trip had been decided upon. He also read a letter from F. E. Handy stating that it would not be possible for anyone from Headquarters to accept Dr. Rosenbaum's invitation to attend the QSO party.

The secretary concluded the exposition of the third chapter of the Handbook and gave some extra data on high C versus low C circuits and on rectifier systems.

Mr. Seibel then made several announcements regarding the QSO party and also produced the "fliers" and the tickets.

Adjournment took place at 9:40 PM.

Respectfully submitted,

Louis A. Wollaeger

Secretary

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held April 13, 1933.

The meeting was called to order at 8:30 PM by Dr. Rosenbaum.

The minutes of the previous meeting stood approved as read.

Mr. R. I. MacDonald, W9JQH, was admitted to regular membership in the Club.

Chairman Rosenbaum commented upon the material which had been received from the publishers of "Who's Who in Amateur Radio". The general concensus of opinion was that the whole scheme was nothing but a "racket".

The papers and publications committee gave up in disgust.

There was some discussion of the activities on the various bands, although no one had very much to say.

Mr. Senneff gave an interesting talk on several of the new tubes together with Class A' amplification. He stated that due to the inroads made by amateurs, the sale of mercury vapor rectifying tubes in the small sizes was losing favor with the tube manufacturers.

Mr. Barnes wanted to know several things about modulation, but since nobody could or would answer him, the meeting was adjourned at 9:38 PM.

Respectfully submitted,

Louis A. Wollaeger

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held April 20, 1933.

The meeting was called to order at 8:25 PM by Chairman Moore.

The minutes of the previous meeting stood approved as read.

Mr. Meyer of the papers and publications committee read various items from the latest issue of the Traffic Bulletin.

Mr. Catel announced that the QSO Party announcements were in the mail, while Mr. Seibel stated that everything connected with t the party was going along smoothly. Dr. Rosenbaum announced that he had had pretty good luck so far with his requests for prizes.

Mr. Wareing gave a very interesting talk concluding the subject of parallel resonance and commencing the subject of antenna systems. He explained why the fundamental length of an antenna was only 95% of the length of a half wave in space to which it would be resonant.

Mr. Zacnar brought up the question of raffling tickets to the QSO party and moved that such a procedure be adopted. There was considerable discussion and confusion since it was almost ten o'clock and the meeting was therefor rather unceremoniously adjourned.

Respectfully submitted,

Louis A. Wollaeger

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held April 27, 1933.

The meeting was called to order at 8:20 PM by Chairman Moore.

The minutes of the previous meeting stood approved as read.

Mr. Moore announced the amateur operator license examination to be held at the Milwaukee post-office on April 27th, and also read a letter announcing that crystals could be had for one dollar each.

Mr. Meyer of the papers and publications committee spoke on inter-electrode capacitances, the troubles they caused, and the means of disposing of the said troubles. He also discussed some of the editorial views of "R9".

Mr. Zackar repeated his motion of the previous meeting that a raffle of QSO party tickets be held. The motion was passed, and three tickets were raffled off. The first was won by Mr. Parish, the second by Mr. Mohns, and the third by Dr. Rosenbaum. The latter donated his ticket for a free raffle and it was then won by Mr. C. Catel, who in turn donated it for a similar raffle. It was subsequently won by Mr. Millington.

Mr. Meyer then read some of the questions sometimes asked in unlimited amateur phone examinations.

The meeting was adjourned for a general get-together at 9:35 PM.

Respectfully submitted,

Louis A. Wollaeger

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held May 4. 1933.

The meeting was called to order at 8:30 PM by Chairman Moore.

The minutes of the previous meeting stood approved as read.

Mr. Joseph Kircher was voted into the Club as an associate member.

Mr. Moore read letters announcing the Wisconsin and Chicago conventions, McMurdo Silver's talk on May 18th and the donation of a one hundred dollar scholarship as a QSO Party prize by the Port Arthur Radio College.

Mr. Matthew Berlowitz donated a power transformer which was subsequently raffled at 10¢ per chance; being won by Mr. Siepmann and netting the Club the sum of two dollars.

Mr. Vareing continued his talk on antennas, discussing mainly the directional characteristics of various types of radiators. It was apparent from the talk that an antenna can either make of break a transmitting station.

There being no further business the meeting was adjourned at 9:45 PM.

Respectfully submitted,
Louis A. Wollaeger
Secretary.

Treasurer's Report.

Previously Reported	$32.23
Receipts	$18.48
Disbursements	$15.42
Balance on Hand May 1, 1933	$35.29.

THE MILWAUKEE RADIO AMATEUR'S CLUB, INC.

Minutes of the Regular Meeting held May 11, 1933.

The meeting was called to order at 8:42 PM by Chairman Moore.

The minutes of the previous meeting stood approved as read.

Mr. Moore read communications from Mr. Munger of Minneapolis and from the Drake Electric Co. of Chicago.

Mr. Meyer of the papers and publications committee read several excerpts from Radio-craft and Shortwave-craft, The ultra-short wave work being done by Marconi proved to be especially interesting.

Mr. J. E. Nielsen of the Circulation Department of Radio Engineering was present and said a few words about business conditions in the radio industry, mostly as shown by the advertising being placed with his publications.

There was considerable discussion on the subject of five meter operation and also on the condition of the ham bands generally.

Due to the fact that there was considerable detail to be settled for the QSO Party, adjournment took place at 9:30 PM to allow a meeting of the ~~Board of Directors~~ QSO comm. Chairman.

Respectfully submitted,

Louis A. Wollaeger

Secfetary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held May 18, 1933.

The meeting was called to order at 8:24 PM by Chairman Moore.

The minutes stood approved as corrected by Mr. Catel

The subject of five meters was mentioned in connection with the difficulties experienced by some hams with the new parallel tuned receiver described in QST.

As the feature of the evening, Mr. Harold M. Detrick, chief engineer of McMurdo Silver, Inc., speaking in place of Mr. Silver himself, described his firm's new ham superheterodyne receiver, explaining its features and operation. Because of the well-shielded building and the QRM from the generator in the basement, the receiver did not work very well in the meeting room.

In order to allow hooking the receiver up outside where it would have a better chance of working, the meeting was adjourned at 9:22 PM.

Respectfully submitted,

Louis A. Wollaeger

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held May 25, 1933.

The meeting was called to order at 8:25 PM by Chairman Moore.

The minutes of the previous meeting stood approved as read.

Mr. Moore announced the International Portable QSO Contest to be held on June 10th and 11th and the Chicago World Convention, to be held August 3rd, 4th, and 5th.

Mr. Meyer of the papers and publications committee described the characteristics and operation of Class B amplifiers.

Mr. Williams, ex3AW, was a visitor and described some of his experiences in the early spark days and in commercial "brass-pounding". Mr. L. S. Baird, one of the Club's founders, was also present and also said a few words.

The matter of the Hotel Pfister's exorbitant beer handling charge was brought up by Mr. Seibel and given the comment it deserved.

Since the weather was pleasant, there was no further business and the meeting was adjourned at 9:07 PM.

Respectfully submitted,

Louis A. Wallager

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held June 1, 1933.

The meeting was called to order at 8:30 PM by Chairman Moore.

The minutes of the previous meeting stood approved as read.

Mr. Moore read extracts from the ~~the~~ report of the action taken by the A.R.R.L. board of directors on various amateur matters, and also some of the other subjects contained in the A.R.R.L. Bulletin.

Mr. Frank Bliesener, W9NMP, was admitted to regular membership in the Club.

Mr. Meyer, chairman of the papprs and publications committee, described a marvelous 500 KW water cooled tube used in England at the present time. This tube, which is being continually exhausted during the time it is in use, takes a filament current of 500 amperes at 32 volts and has a rated plate current of 160 amperes. He also described some experiments on the fuse protection of meters and explained how a one milliampere meter could be protected by a 1/32 ampere fuse.

The Club's annual picnic next came under discussion with no definite conclusion being reached. It was decided to dispose of this matter at the Board meeting to be held diredtly after the adjournment of the regular meeting.

Adjournment took place at 9:07 PM.

Respectfully submitted,

Louis A. Wollaeger

Secretary.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Regular Meeting held June 6, 1933.

The meeting was called to order at 8:25 PM by Chairman Moore.

The minutes of the previous meeting stood approved as read.

Chairman Moore read a letter describing the "Hamfest" to be held by the Wheaton (Ill.) Radio Club on Saturday, the 17th of June.

Mr. Moore then gave some of the highlights of a diversity antenna system which he had heard described over the Columbia Broadcasting System. In an antenna system of this kind, used in receiving, several different antennas are in turn automatically brought into play to minimize the effects of polarization of the incoming wave. The system is extensively used in the reception of foreign broadcasts for re-broadcast in this country. Mr. Wareing concluded the subject by stating that this was all "old stuff".

Since the attendance was rather small and also quite apathetic, probably due to the weather, there was nothing further to discuss, so that adjournment took place at 9:05 PM.

Respectfully submitted,

Louis A. Wollaeger

Secretary.

Treasurer's Report.

Balance on Hand June 1, 1933 $87.09.

THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

Minutes of the Special Meeting held Aug. 7, 1933.

The meeting was called to order at 8:14 PM by Chairman Moore.

The reading of the minutes of the previous meeting was dispensed with.

Mr. Moore called upon Mr. Catel to describe his impressions of the Chicago Convention. The latter responded by describing some of the incidents occurring at the final banquet, notably the presentation to him by Admiral Cluverius of a plaque for outstanding work in the Naval Communications Reserve. The talk by Hiram Percy Maxim was also described. Mr. Wareing mentioned some notes on the various new kinks which had been brought up by John Reinartz.

Mr. Hebert was then introduced by Chairman Moore. The former immediately proceeded to describe the code contest at the Convention and some of the outstanding contestants. He then began on the new regulations, stating why they were necessary.

The phone question was taken up first. Mr. Hebert stated that prolonged monitoring had established the fact that in the 160 meter band about 70% of the operation was on phone, so that this band had been widened; while on 80 meters about 15% of the operation was on phone, so that this band had been left unchanged. Type A2 emission is to be outlawed on wavelengths above the ten meter band, and no more portable licenses will be issued. It was brought out that if there is not constant progress, retrogression sets in.

Mr. Hebert also mentioned the support given an unjustly accused amateur by the Federal Radio Commission, and the sucdessful efforts of the A.R.R.L. in opposing legislation detrimental to the amateur.

In answer to a question as to why the constructional articles in QST always seemed to feature a certain make of equipment, Mr. Hebert stated that in working up these articles the apparatus on hand was always used.

In concluding his talk, Mr. Hebert told a couple of stories, one on himself and one on Fred Catel. The latter countered with one on Hebert and Schnell.

Due to the failure of the lights, it was necessary to adjourn the meeting at 9:59 PM.

Respectfully submitted,

Louis A. Wallaeger

Secretary.

Treasurer's Report.

Balance on Hand Sept. 21, 1933 $55.34.